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ATTORNEY'S DOCKET NUMBER FORM PTO-1390 (Modified) (REV. 2-2005) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE 14321.79 TRANSMITTAL LETTER TO THE UNITED STATES U.S. APPLICATION NO. (If known, see 37 CFR 1.5) DESIGNATED/ELECTED OFFICE (DO/EO/US) 0/540789 CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED 26 December 2003 PCT/JP2003/017065 27 December 2002 TITLE OF INVENTION ARRAY WAVEGUIDE LATTIC TYPE OPTICAL MULTILEXER/DEMULTIPLEXER CIRCUIT APPLICANT(S) FOR DO/EO/US Akimasa Kaneko Tsutomu Kitoh Yasuyuki Inoue Mikitaka Ito Yoshinori Hibino Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.  $\boxtimes$ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), 3. (9) and (24) indicated below.  $\boxtimes$ The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) 5. is attached hereto (required only if not communicated by the International Bureau). b. 🖾 has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). 6. X is attached hereto. b. 🔲 has been previously submitted under 35 U.S.C. 154(d)(4). X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) 7. a. 🗆 are attached hereto (required only if not communicated by the International Bureau). b. 🔲 have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. C. d. 🛛 have not been made and will not be made. 8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9.  $\boxtimes$ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 10. An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). A copy of the International Preliminary Examination Report (PCT/IPEA/409). 11.  $\boxtimes$ 12 A copy of the International Search Report (PCT/ISA/210). Items 13 to 23 below concern document(s) or information included: 13. П An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 14. ×  $\boxtimes$ 15 A FIRST preliminary amendment. 16. A SECOND or SUBSEQUENT preliminary amendment. 17. A substitute specification.  $\boxtimes$ 18. A power of attorney and/or change of address letter.

PCTUS1/REV06

A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.

A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).

A second copy of the published International Application under 35 U.S.C. 154(d)(4).

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Express Mail Label No.

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Other items or information:

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO (if known, see 37 CFR 1.5)			INTERNATIONAL APPLICATION NO.			ION NO.	ATTORNEY'S DOCKET NUMBER			
10/540789 PCT/JP2003/0017065				65	14321.79					
The following fees are submitted:							CALCULATIONS	PTO USE		
	ational fee				• • • •	\$300	\$ \$300.00			
25. Examination fee  If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)							\$ \$200.00			
26. ⊠ Search fee  Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority							\$ \$400.00 \$ \$900.00			
Total Sheets	Extra Sheets		of each additional 50 or RATE reof (round up to a whole		RATE					
34 - 100 =	0 /50 =		0		x	\$250.00	\$ \$0.00			
	Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492(e)).						\$			
CLAIMS					TE					
Total claims	2	- 20 =	0	х		\$50.00	\$ \$0.00			
Independent clair	ns 1	- 3=	0	×		\$200.00	\$ \$0.00			
MULTIPLE DEPE	ENDENT CLAIMS	(if applicable)		+		\$360.00	\$ \$0.00			
			L OF ABOVE C				\$ \$900.00			
Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.							\$ \$0.00			
SUBTOTAL =							\$ \$900.00			
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Fee for recording accompanied by	the enclosed assi an appropriate cov	gnment (37 C er sheet (37 c	FR 1.21(h)). The ass CFR 3.28, 3.31). \$40	signm ) per p	ent n	nust be rty +	\$ \$80.00			
	TOTAL FEES ENCLOSED = \$ \$980.00									
							Amount to be	\$		
							Amount to be	\$		
a. 🔲 A check	in the amount of \$	;	to cover the a	bove	fees	is enclosed.				
_	b. Please charge my Deposit Account No in the amount of to cover the above fees A duplicate copy of this sheet is enclosed.									
c. 🗵 The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment										
to Deposit Account No. 23-3178 A duplicate copy of this sheet is enclosed.  d.  Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card										
information should not be included on this form. Provide credit card information and authorization on PTO-2038.  NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b))										
must be filed and granted to restore the International Application to pending status  SEND ALL CORRESPONDENCE TO:							7.72			
Dana L. Tangren  SIGNATUR							- Junga			
Workman Nydegger Dana						Dana L. Ta	·- //			
022913						NAME				
Pa <sup>.</sup>	TENT TRADEMARK	OFFICE		_			,246			
CUSTOMER NO.					REGISTRATION NUMBER					

	CERTIFICATE (	Doc	Docket No.					
	Applicant(s): Ts		143	14321.79				
1	0 35 40 7	<b>8</b> ing Date	Confirmation No.	Customer No. 022913	Examiner	Group Art Unit		
	Invention: ARRAY WAVEGUIDE LATTICE TYPE OPTICAL MULTILEXER/DEMULTIPLEXER CIRCUIT							

I hereby certify that the following are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Mail Stop: PCT, Commissioner for Patents, PO Box 1450, Arlington, Virginia 22313-1450.

DATED this 27<sup>th</sup> day of June 2005.

- Transmittal Letter concerning filing under 35 USC § 371 (2 page) (in duplicate)
- First Assignment with cover sheet form PTO-1595 (5 pages)
- Second Assignment with cover sheet form PTO-1595 (4 pages)
- First Combined Declaration and Power of Attorney (3 pages)
- Second Combined Declaration and Power of Attorney (4 pages)
- First page of International Application No. PCT/JP2003/017065
- English translation of PCT/JP2003/017065 (23 pages)
- English translation of drawings (11 pages)
- Copy of International Search Report
- Preliminary Amendment (3 pages)
- Form PTO-2038 submitting Credit Card Payment in the amount of \$980
- Postcard

DANA L. TANGREN

(Typed or Printed Name of Person Mailing Correspondence)

(Signature of Person Mailing Correspondence

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("Express Mail" Mailing Label Number)

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## JC20 Rec'd PCT/PTO 27 JUN 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re International Application of

Tsutomu KITOH, Yasuyuki INOUE, Mikitaka ITO, Yoshinori HIBINO and Akimasa KANEKO

International Application No.:

PCT/JP2003/17065

International filing date:

December 26, 2003

For: ARRAY WAVEGUIDE LATTICE TYPE OPTICAL MULTILEXER/DEMULTIPLEXER CIRCUIT

## VERIFICATION OF TRANSLATION

Honorable Commissioner of Patent and Trademark Washington, D.C. 20231 Sir:

Eiichi NAKANISHI residing at c/o TANI & ABE, 6-20, Akasaka 2-chome, Minato-ku, Tokyo 107-0052, Japan, declares:

- (1) that he knows well both the Japanese and English languages;
- (2) that he translated the claims of the above-identified International Application from Japanese to English;
- (3) that the attached English translation is a true and correct translation of the claims, specification and drawings of the above-identified International Application to the best of his knowledge and belief; and
- (4) that all statements made of his own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements are made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 USC 1001, and that such false statements may jeopardize the validity of the application or any patent issuing thereon.

June 21, 2005

Eiichi NAKANISHI

Date